**Appendix 1**

**SHARPS collaborative project group**

Hyun David1, Alfred Fernandez2, Craig Shapiro2, Steve Grapentine3, William F. Pomputius3, Michael Smith4, Kanok Mongkol5, Matthew Gentry5, Miranda Nelson6, David Hunstad6, Dawn Nolt7, Robin Stec8, Marc Mazade9, Rosanne Thurman9, Sandy Arnold10, Kelley Lee10, Nicholas Bennett11, Jennifer Girotto11, Preeti Jaggi12, Saul Hymes13, Paige Anderson14, David Berman15, Katie Namtu15, Jared Olson16, Emily Thorell16, Sameer Patel17, Rupal Patel17, Holly Maples18, William M Linas18, Scott Weissman19, Adam Brothers19, Jason Child20, Sarah J Parker20, Amanda Hurst 20, Kelly Flett21, Sarah Jones21, Kristen Nichols22, Elaine Cox22, Jennifer Goldman23, Diana Yu23, Christie VanDyke24, Rosemary Olivero24, Jeff Gerber25, Talene Patel25, Hayden Schwenk26, Betty Lee26, Joshua Courter27, David Haslam27, Ruston Taylor28, Debra Palazzi28, Rebeca Calderon29,Marcelo Laufer29.

**Institutions**

1. Children's National Medical Center, Washington, D.C
2. Children's Healthcare of Atlanta, Atlanta, GA
3. Children's Hospitals and Clinics of Minnesota, Minneapolis, MN
4. Kosair Children's Hospital, Louisville KY
5. Children's Hospital Los Angeles, Los Angeles, CA
6. St. Louis Children's Hospital, St. Louis, MO
7. Doernbecher Children's Hospital, Portland, OR
8. Children’s Hospital Omaha, Omaha, NE
9. Cook Children's Medical Center, Fort Worth, TX
10. Le Bonheur Children's Hospital - Memphis, TN
11. CT Children’s Medical Center, Hartford, CT
12. Nationwide Children's Hospital, Columbus, OH
13. Stony Brook Children's Hospital, Stony Brook, NY
14. Rady Children's Hospital, San Diego, CA
15. All Children's Hospital-Johns Hopkins Medicine, St. Petersburg, FL
16. Primary Children's Hospital in Salt Lake City, UT
17. Ann & Robert H. Lurie Children's Hospital, Chicago, IL
18. Arkansas Children's Hospital, Little Rock, AR
19. Seattle Children's Hospital Seattle, Seattle, WA
20. Children's Hospital Colorado, Aurora, CO
21. Boston Children's Hospital, Boston, MA
22. Riley Hospital for Children at Indiana University Health, Indianapolis, IN
23. Children's Mercy Hospital, Kansas City, MO
24. Helen DeVos Children's Hospital, Grand Rapids, MI
25. The Children's Hospital Philadelphia, Philadelphia, PA
26. Lucile Packard Children's Hospital, Palo Alto, CA
27. Cincinnati Children’s Hospital, Cincinnati, OH
28. Texas Children's Hospital, Houston, TX
29. Miami Children's Hospital, Miami, FL